machine numbers | B25A30Z | B27A30Z | B32A30Z | B36A30Z

zenith

hookup directory

page 5

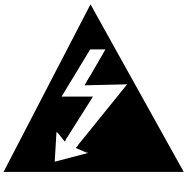
operating guide / warranty

RECORD YOUR MODEL NUMBER
(Now, while you can see it)

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____



WARNING

RISK OF ELECTRIC SHO
DO NOT OPEN

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Entertainment Machine is a trademark of Zenith Electronics Corportion

IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4.Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7.Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

206-3480

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

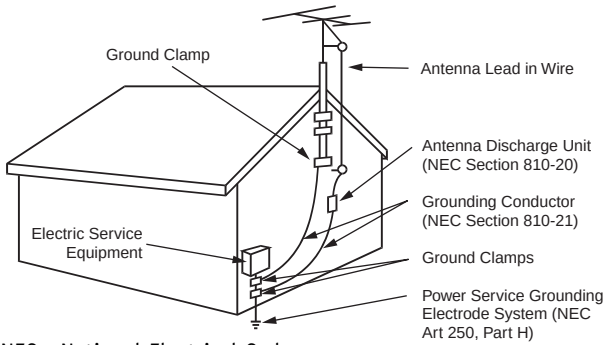
IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Heat

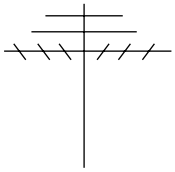
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Hook-Up Directory

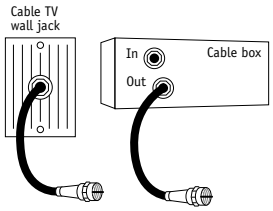
IMPORTANT!!

Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.

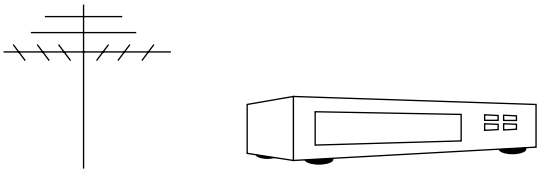
Antenna only If you are using an antenna and no other equipment, go to . . . . . page 6



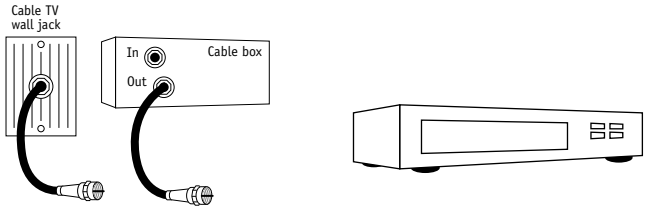
Cable only If you have cable service or a cable box and no other equipment, go to . . . . . page 7



Antenna with VCR If you are using an antenna and have a VCR, go to . . . . . page 8



Cable and VCR If you have cable service or a cable box and a VCR, go to . . . . . page 9



Note: You will need to connect a VCR to your television in order to use the Picture-In-Picture feature.

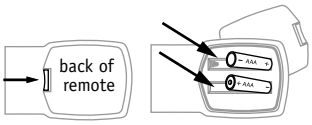
Hook Up Your Antenna to the TV

Connect an antenna to your Entertainment Machine.

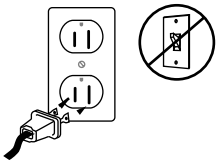
1 Locate the Antenna/Cable jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall directly to this jack, according to the diagram to the right.

3 Remove the back of the remote and put in two AAA batteries.



4 Plug in your Entertainment Machine.· Do not plug it into a switched outlet. Your Entertainment Machine is designed to operate on household current, 120-volt 60 Hertz AC do not attempt to operate it on DC Current.

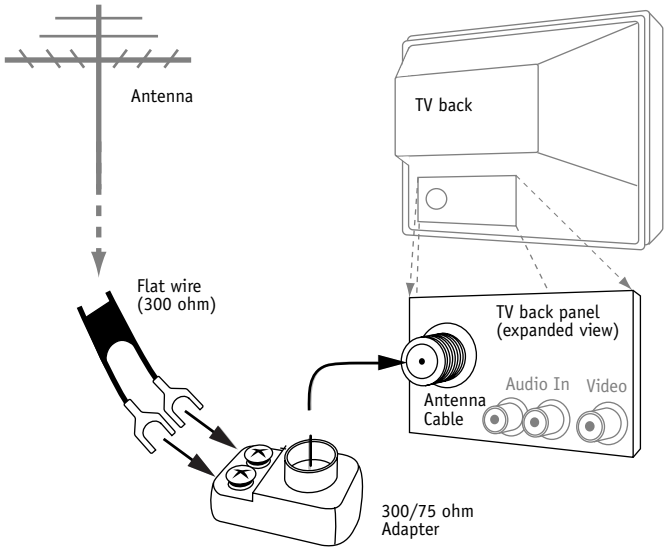


5 Go to page 10 to Auto Program your Entertainment Machine.

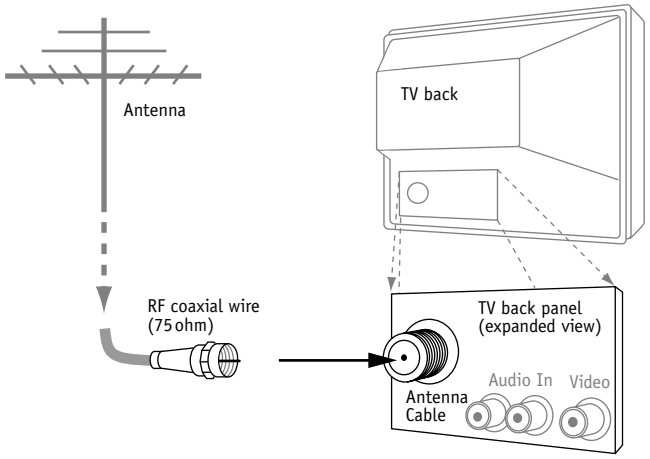
If you have a 75 ohm RF cable, then you don't need any adapters!

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

Flat wire antenna to Entertainment Machine



Antenna to Entertainment Machine



Mini glossary

75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of you Entertainment Machine.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

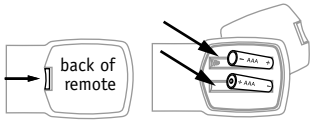
Hook Up Your Cable Service (CATV)

Connect cable service to your Entertainment Machine.

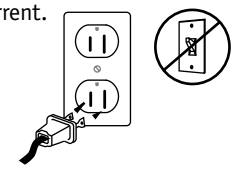
1 Locate the Antenna/Cable jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall directly to this jack, according to the diagram to the right.

3 Remove the back of the remote and put in two AAA batteries.



4 Plug in your Entertainment Machine. Do not plug it into a switched outlet. Your Entertainment Machine is designed to operate on household current, 120-volt 60 Hertz AC do not attempt to operate it on DC Current.



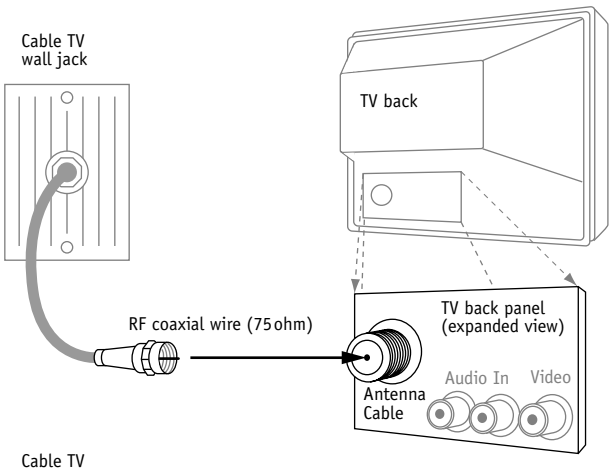
5 Go to page 10 to Auto Program your Entertainment Machine.

If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.

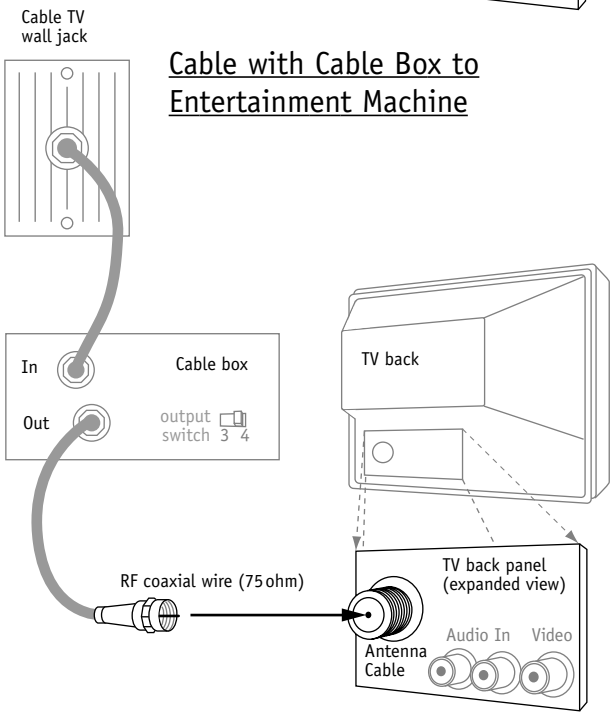
Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

If you're using a cable box, Auto- Program might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!

Cable to Entertainment Machine



Cable with Cable Box to Entertainment Machine



Mini glossary

CABLE SERVICE The wire that supplies all your cable TV (CATV) stations.

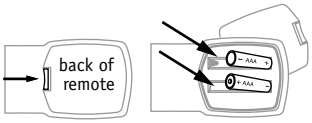
Hook Up Your Antenna and VCR

Connect a VCR to your Entertainment Machine.

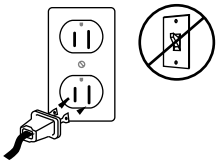
1 Locate the Antenna/Cable jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall directly to this jack, according to the diagram to the right.

3 Remove the back of the remote and put in two AAA batteries.



4 Plug in your Entertainment Machine. Do not plug it into a switched outlet. Your Entertainment Machine is designed to operate on household current, 120-volt 60 Hertz AC do not attempt to operate it on DC Current.

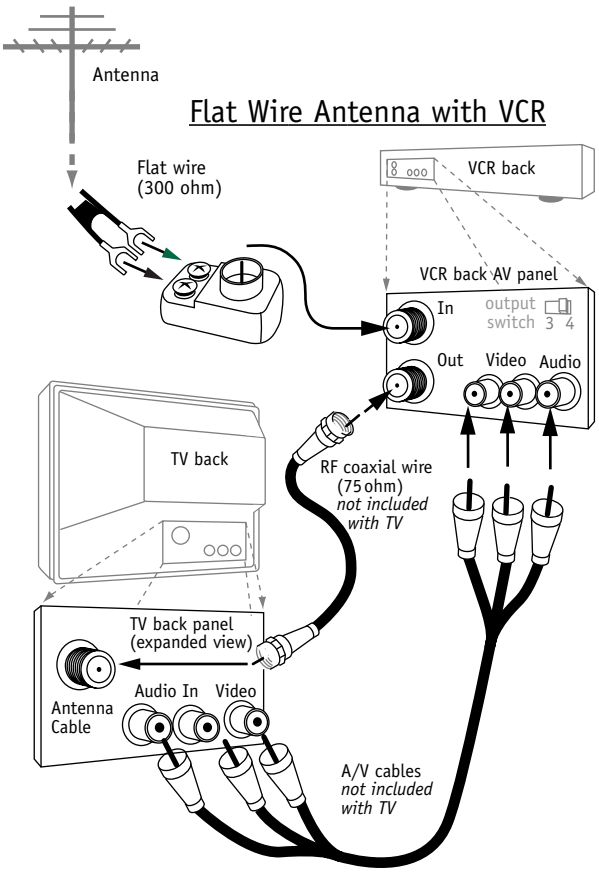


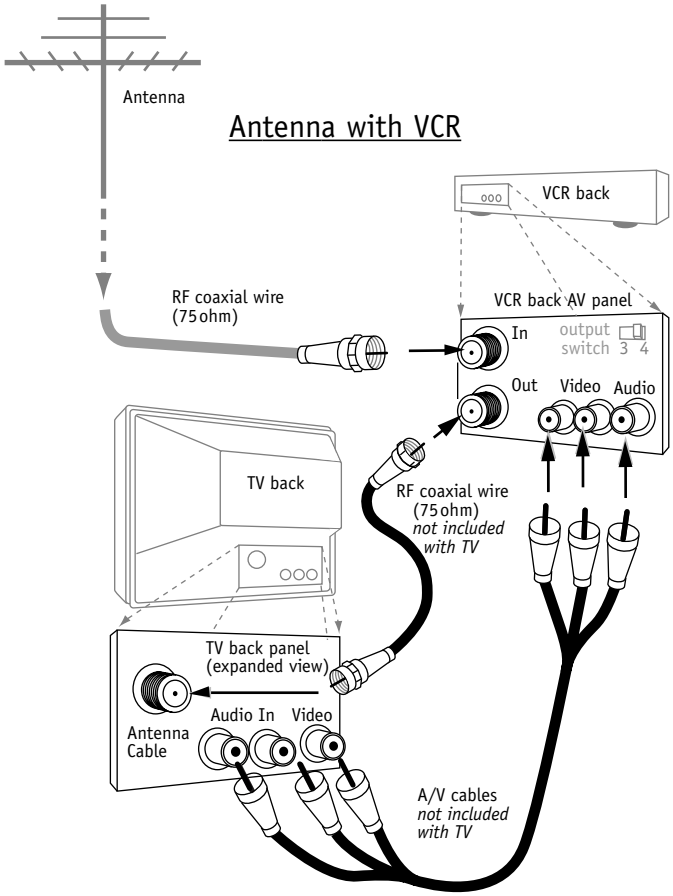
5 Go to page 10 to Auto Program your Entertainment Machine.

If you have a 75 ohm RF cable, then you don't need any adapters!

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

Note: You will need to connect a VCR to your television in order to use the Picture-In-Picture feature. (See page 29 to set the signal source for your PIP)





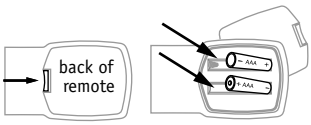
Hook Up Your Cable (CATV) and VCR

Connect cable service and a VCR to your Entertainment Machine.

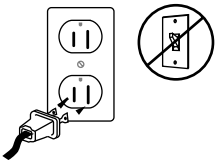
1 Locate the Antenna/Cable jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall directly to this jack, according to the diagram to the right.

3 Remove the back of the remote and put in two AAA batteries.



4 Plug in your TV. Do not plug it into a switched outlet. Your Entertainment Machine is designed to operate on household current, 120-volt 60 Hertz AC do not attempt to operate it on DC Current.



5 Go to page 10 to Auto Program your Entertainment Machine.

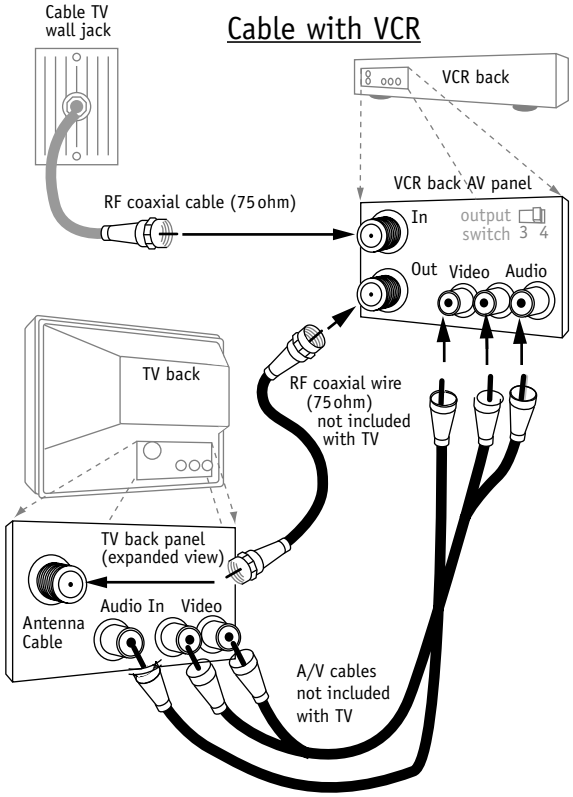
Leave your VCR and your television tuned to channel three and use the cable box to change channels.

Remember, when screwing in RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

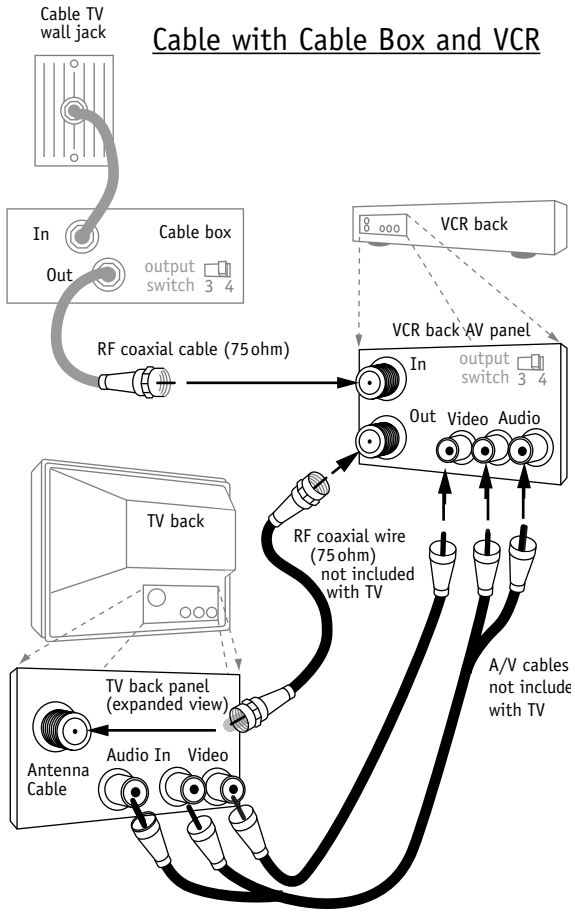
Without A/V cables, most VCRs will not play videocassettes in stereo sound.

Note: You will need to connect a VCR to your television in order to use the Picture-In-Picture feature. (See page 29 to set the signal source for your PIP)

Cable with VCR

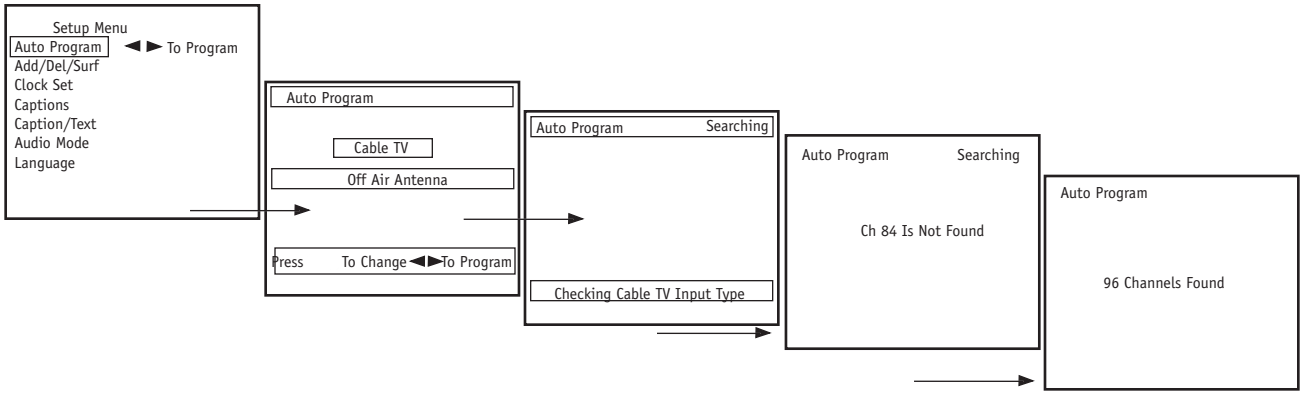


Cable with Cable Box and VCR



Auto Program

Use Auto Program to automatically find and store all of the stations available in your area.



1 With the remote control in hand, press the POWER button to turn on your Entertainment Machine.

2 Press the MENU key so the Setup menu appears.

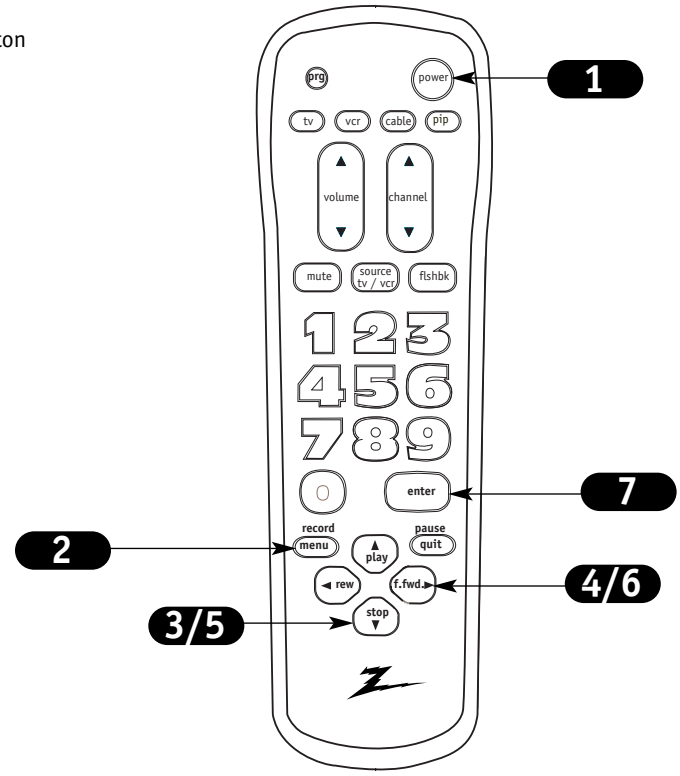
3 Using the UP/DOWN arrows on the remote control, select Auto Program on your screen.

4 Press a RIGHT or LEFT arrow to reach the Auto Program screen.

5 Using the UP/DOWN arrows, choose either Cable TV or Off-Air Antenna on your screen.

6 Press a RIGHT or LEFT arrow to begin Auto Program.

7 Press ENTER to return to TV viewing.



Mini glossary

AUTO PROGRAM Auto Program is how your Entertainment Machine finds all the channels available in your area and stores them into memory.

The Buttons on Your Remote

A quick list of all of the buttons on the remote and what they do.

PRG (PROGRAM)
Used to begin programming procedure.

Mode Keys
Lets you select the different modes of operation TV/VCR/CABLE

Volume(Up/Down)
Adjusts the sound on your Entertainment Machine.

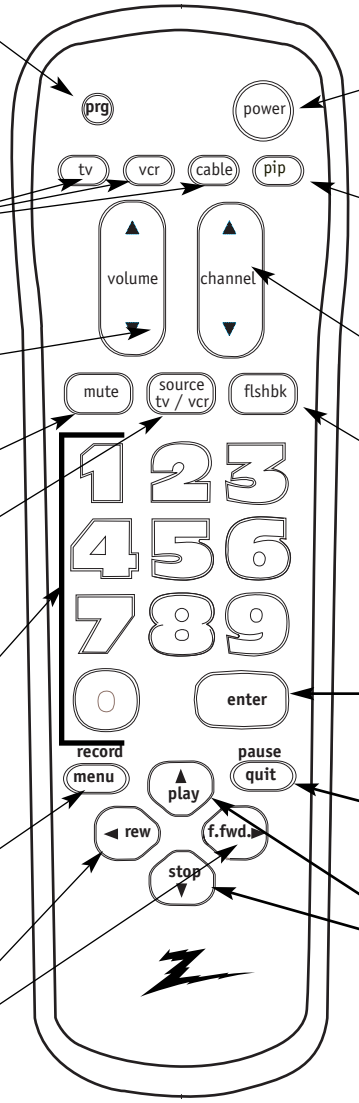
Mute
Turns sound off and on instantly.

Source TV/VCR
Switches between watching TV via the available sources, that is, ANTENNA/CABLE or VIDEO IN.

Numbers Key Pad
Use for direct channel entry or for on-screen programming.

menu/record
Displays on-screen menus in the TV mode and can be used as an Instant Record button when programmed to operate a VCR.

rew/f.fwd/adj left/adj right arrows: Allows you to fast forward and reverse the videotape when the remote has been programmed to operate a VCR. The left/right arrows adjust the menu options.



Power
Turns your Entertainment Machine on and off.

PIP
For PIP (Picture-in-Picture) operation

Channel(Up/Down)
Cycles through available channels.

Flashback
Returns to last channel viewed.

Enter
Displays current TV channel and time, removes on-screen menus. Press after channel numbers for instant selection.

quit/pause
When in the TV mode, it allows you to escape from most menu options. When in the VCR mode, it allows you to stall the tape momentarily.

Play/Stop
Allows you to play or stop a videotape when the Remote has been programmed to operate a VCR. Use also to cycle and select a feature in AN on screen menu display.

remote control part number
MBR3346Z
124-229-1

Front Panel Diagram Model B25A30Z

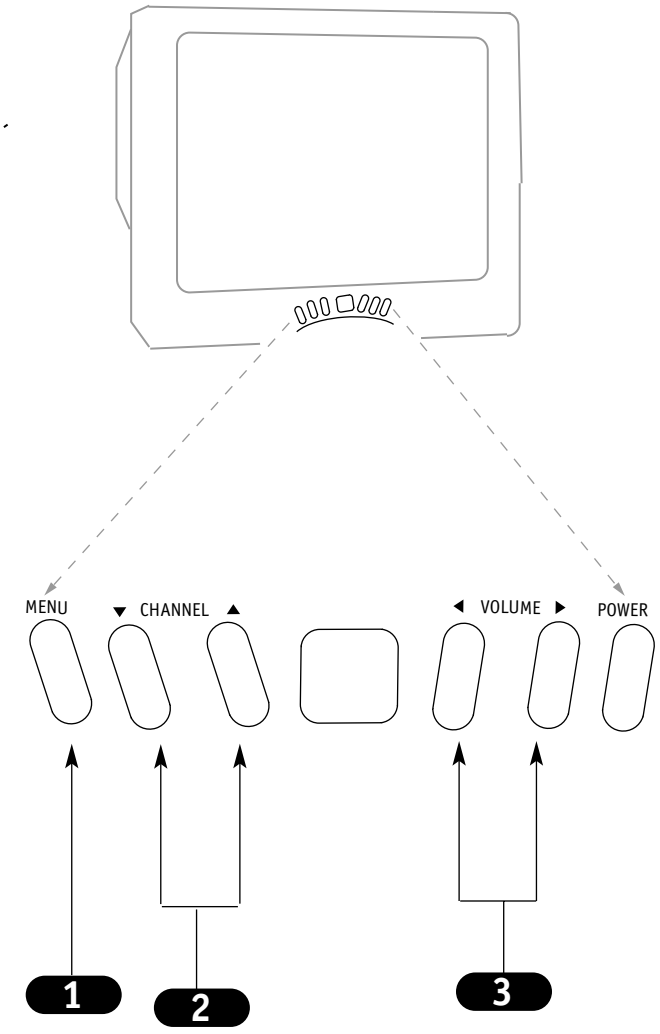
Here's how to use your six-button panel to operate the menus.

When using the on-screen menus, the buttons on the front panel correspond to the remote control buttons as follows: *VOLUME = Adjust Left/Right*
CHANNEL = Select Up/Down

1 To access the Setup menu, press the MENU button once; to get the Video menus, press the MENU button twice.

2 Choose the function you wish to change using the CHANNEL UP/DOWN buttons. The Channel buttons act as a "select" (Up/Down) function.

3 The VOLUME buttons act as an "adjustment" (Left/Right) function. Use the VOLUME buttons to make changes or adjustments.



Menus disappear after five seconds. To get them back, push the MENU button again.

Front Panel Diagram Model B27A30Z

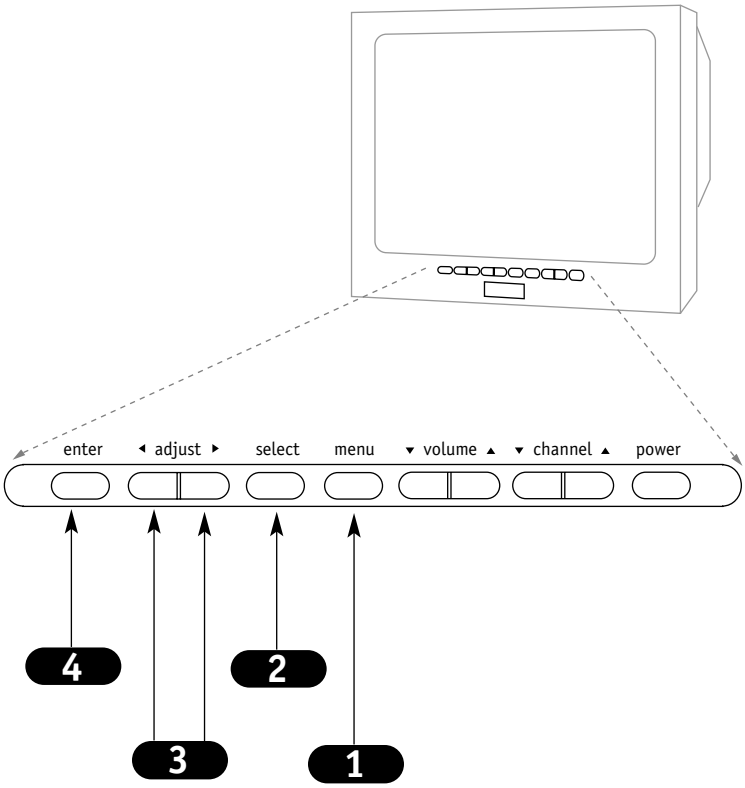
Here's how to use your ten-button panel to operate the menus.

1 To access the Setup menu, press the MENU button repeatedly until the Setup Menu appears on screen.

2 Press the Select button to choose the function you wish to change.

3 Use the ADJUST buttons to make changes or adjustments.

4 Press the Enter button to clear the screen.

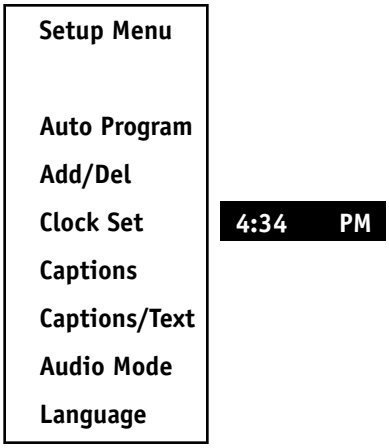


Menus disappear after five seconds. To get them back, push the MENU button again.

Setup Menu

Here are descriptions of the menu options found in the Setup menu.

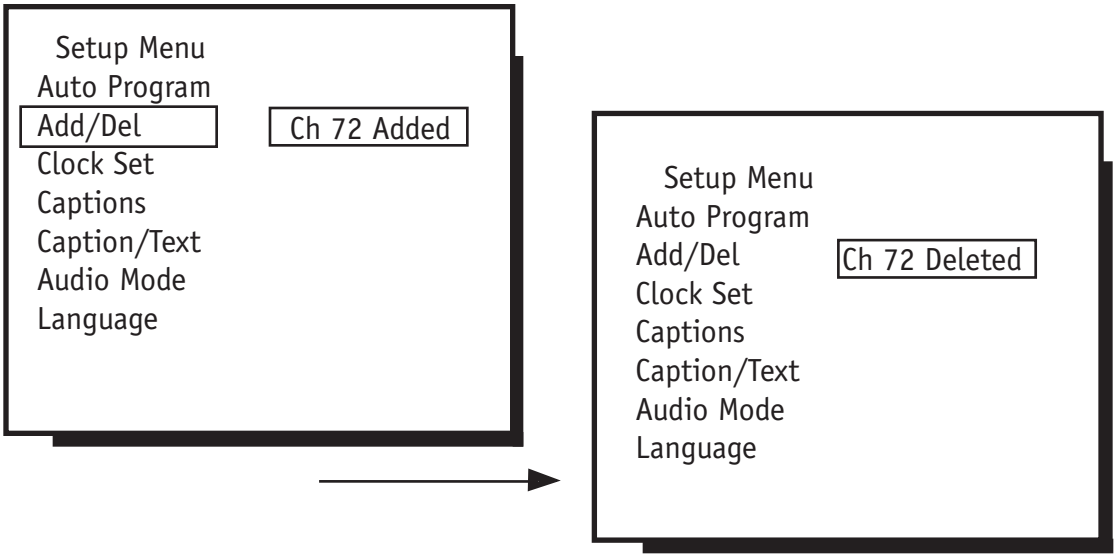
Function	What it does	Go to page
Auto Program	Automatically finds and stores active channels to flip through using Channel Up/Down.	10
Ch. Add/Del	Manually pick and choose which active channels will appear when flipping through using Channel Up/Down.	15
Clock Set	Sets the current time on your Entertainment Machine™.	16
Captions	Switches closed captions on or off.	17
Captions/Text	Displays closed captions or text when available. Options are Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3 and Text 4.	18
Audio Menu	Switch with ease between stereo and monaural sound.	19
Language	Selects language for on-screen menus. Your options are English, Spanish, or French.	20



This is an example of what on-screen menus look like.

Setting Ch. Add/Del

Customize your channel selection.



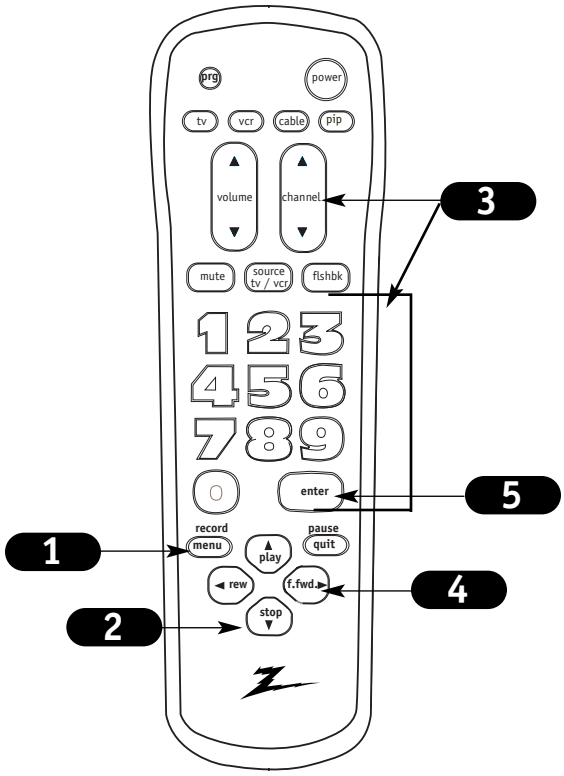
1 Press the MENU key on the remote so the Setup menu appears.

2 Select the Ch. Add/Delete menu using the UP/DOWN arrows.

3 Using either the NUMBER key pad or the CHANNEL UP/DOWN arrows on the remote, select a channel. (If adding a deleted channel, you will need to use the NUMBER key pad.)

4 Using the RIGHT/LEFT arrows, pick whether that channel is Added or Deleted.

5 To continue, select another channel and repeat step 4. If you are finished, press ENTER to return to TV viewing.



You can add or delete a channel without the remote control. Please refer to page 12 on working the menus with the buttons on the front of your Entertainment Machine.

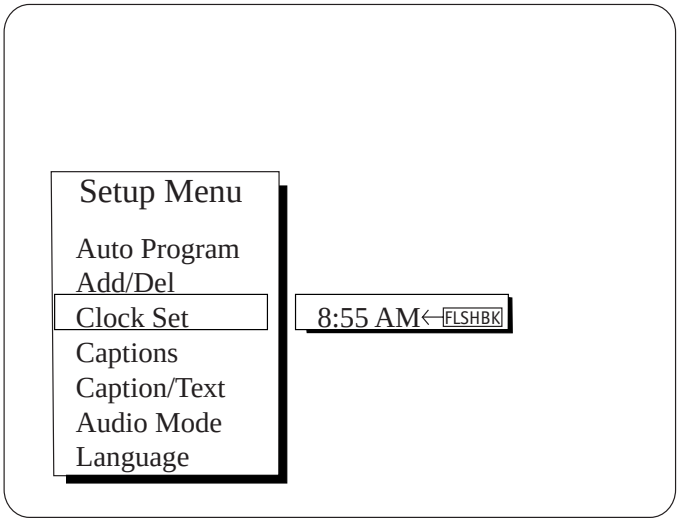
If you delete a channel, it isn't gone for good. Just select it using the NUMBER key pad on the remote, or add it later.

Mini glossary

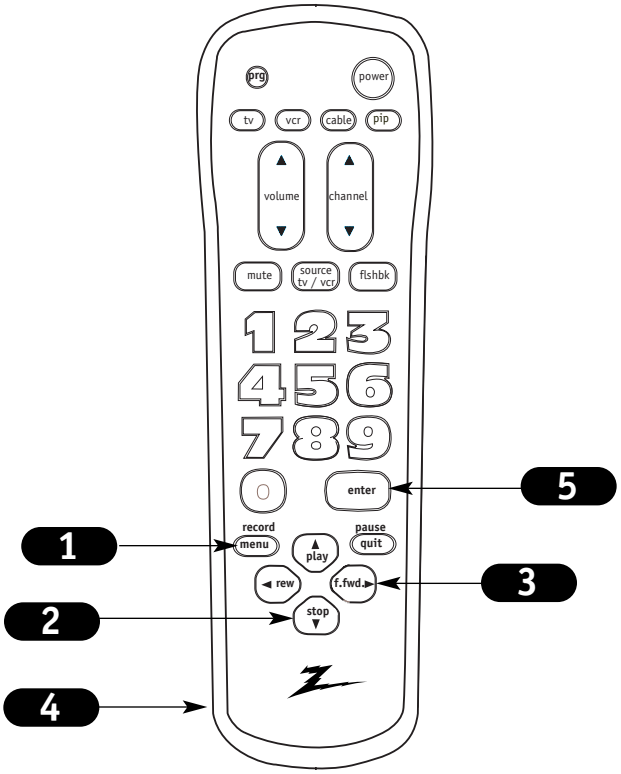
ADD	This function lets you add new channels to the list that you'll scroll through when using your remote.
DELETE	This function lets you remove channels that you don't watch from the list you'll scroll through.

Clock Set

Set the clock on your Entertainment Machine.



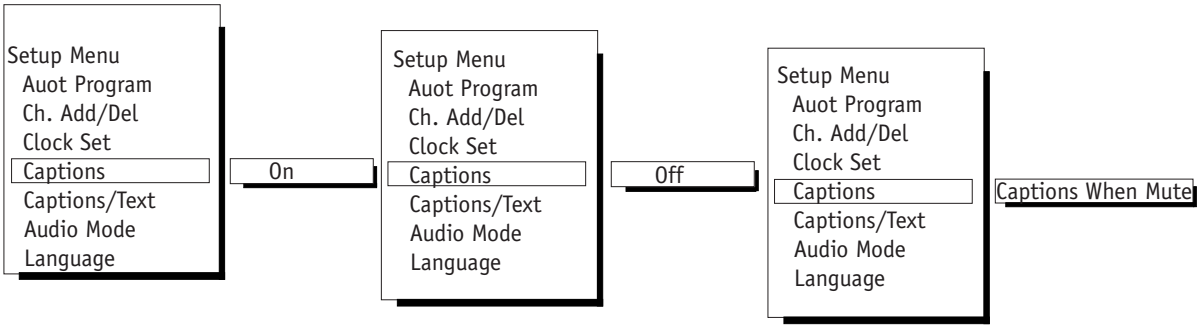
1. Press the MENU key on the remote control so that the Setup menu appears onscreen.
2. Using the UP/DOWN arrows on the remote control, select Clock Set on your screen.
3. Press a RIGHT or LEFT arrow to adjust the time.
4. Press the FLASHBACK button to select AM or PM.
5. Press ENTER to return to TV viewing.



You can use the NUMBER key pad to simply insert the time (AM or PM is still selected with the Flashback key).

Captions

Select the captions option on your Entertainment Machine that suits you best. There is On, Off or Captions When Muted.

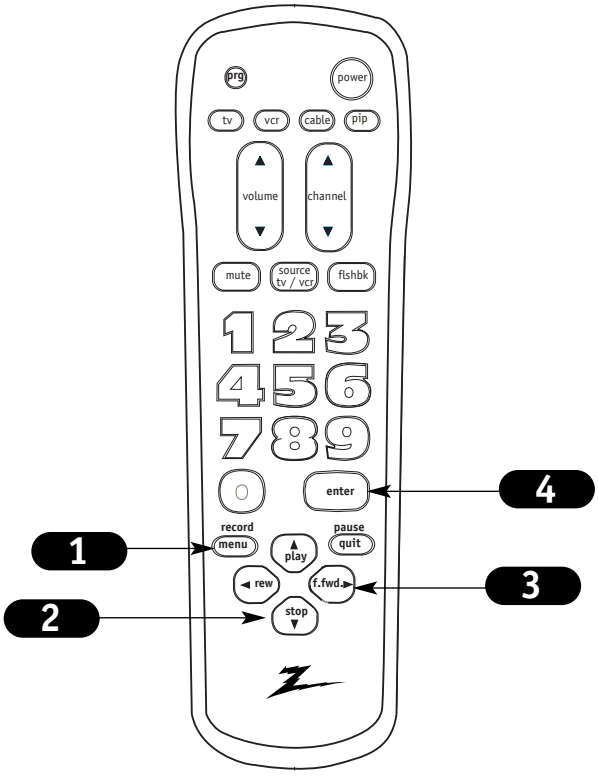


1 Press the MENU key on the remote control so that the Setup menu appears.

2 Using the UP/DOWN arrows on the remote control, select Captions on your screen.

3 Press a RIGHT/LEFT arrow to switch the captions feature On, Off or Caption When Muted.

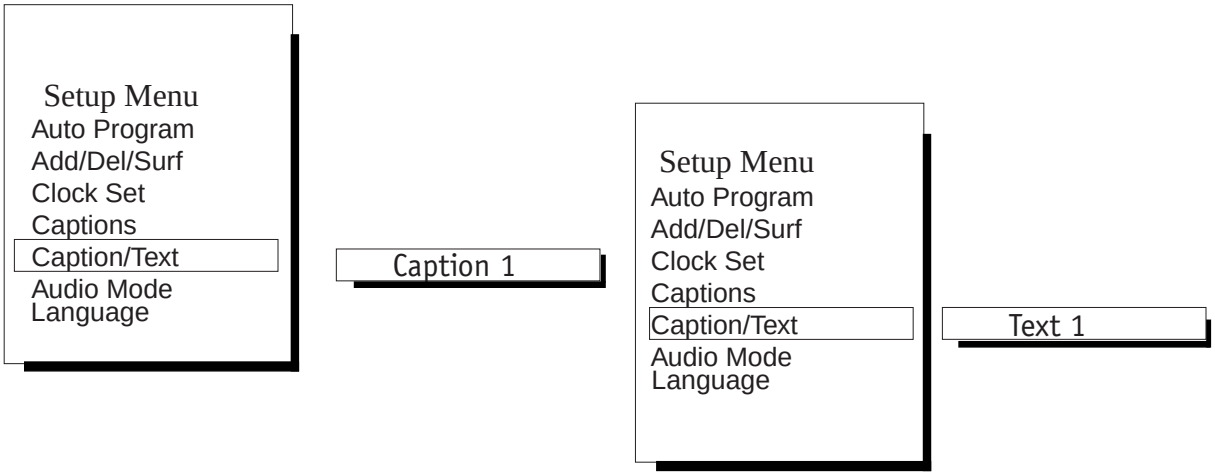
4 Press ENTER to continue.



Use the captions feature when you have to listen to a phone call and still want to follow what's happening on your favorite show.

Captions and Text

Turn on the closed captioning or text feature that appears at the bottom of your screen.

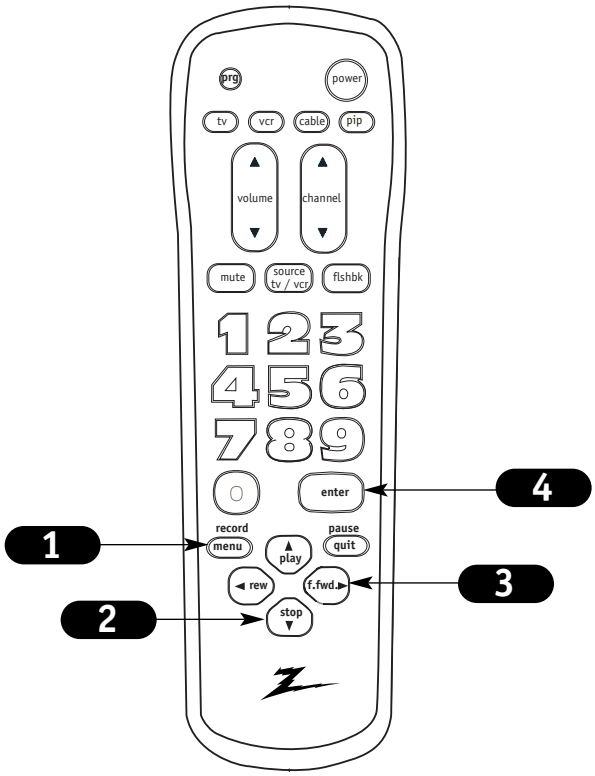


1 Press the MENU key on the remote control so that the Setup menu appears.

2 Using the UP/DOWN arrows on the remote control, select Captions/Text on your screen.

3 Press a RIGHT/LEFT arrow to choose any of the following options: Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3 or Text 4.

4 Press ENTER to return to TV viewing.



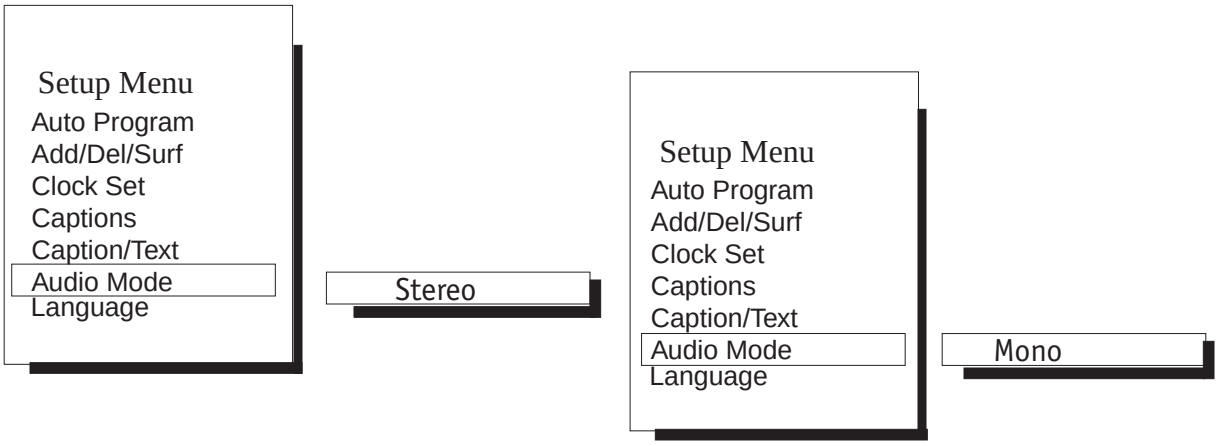
Captions come in handy when the television is on mute.

Standard Closed Captioning is available using the Caption 1 option.

Not all programming has closed captioning or text available.

Audio Mode

Choose between stereo and mono sound.

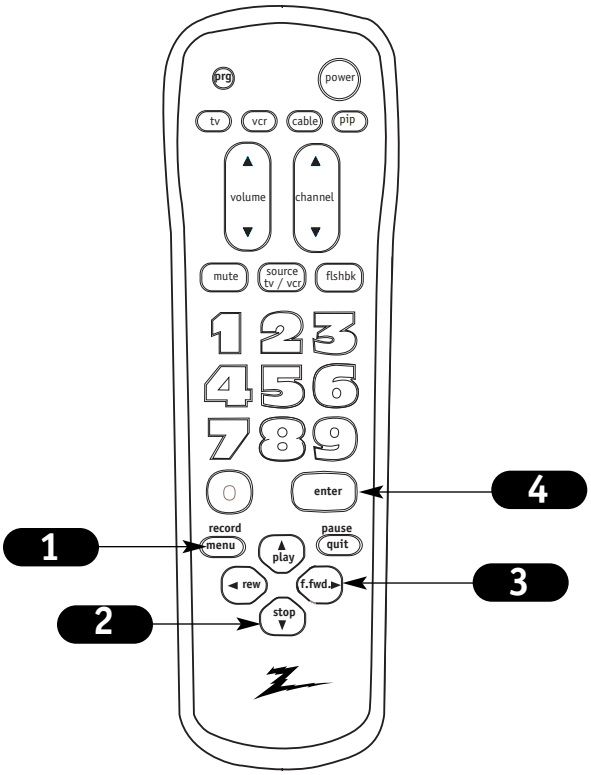


1 Press the MENU key on the remote control so that the Setup menu appears.

2 Using the UP/DOWN arrows on the remote control, select Audio Mode on your screen.

3 Press a RIGHT/LEFT arrow to choose between STEREO and MONO

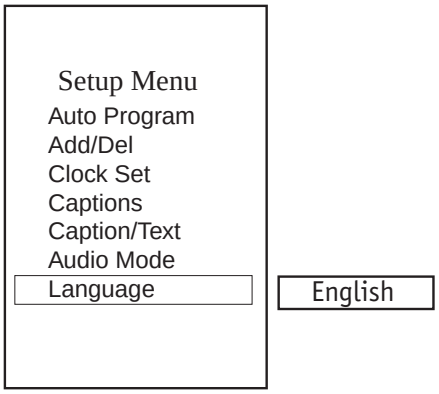
4 Press ENTER to return to TV viewing.



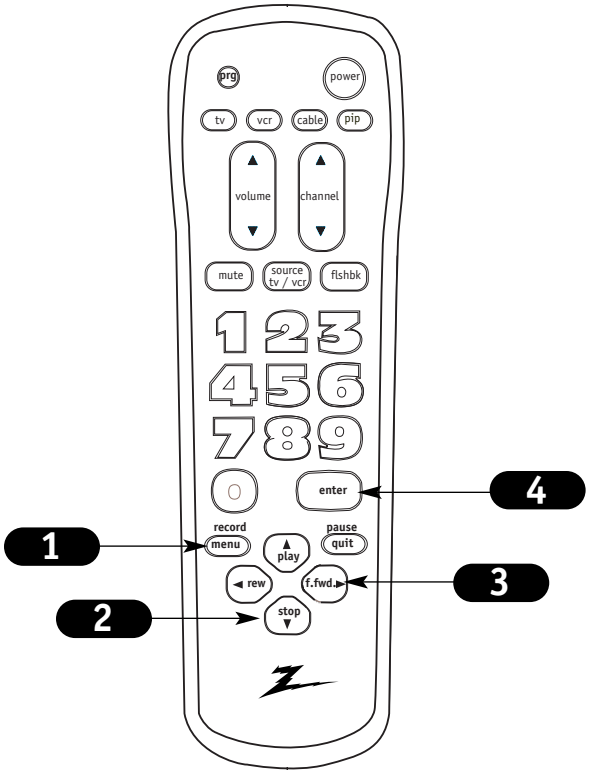
Not all programming is broadcast in Stereo.

Language Options

Choose the language you want all of the menus to appear in.

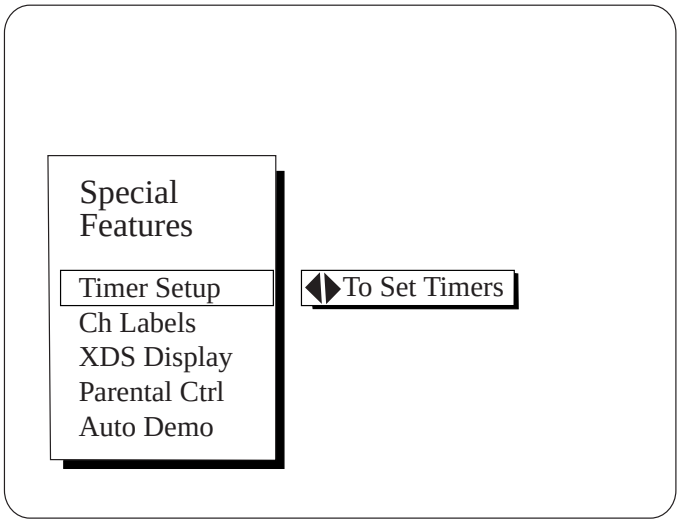


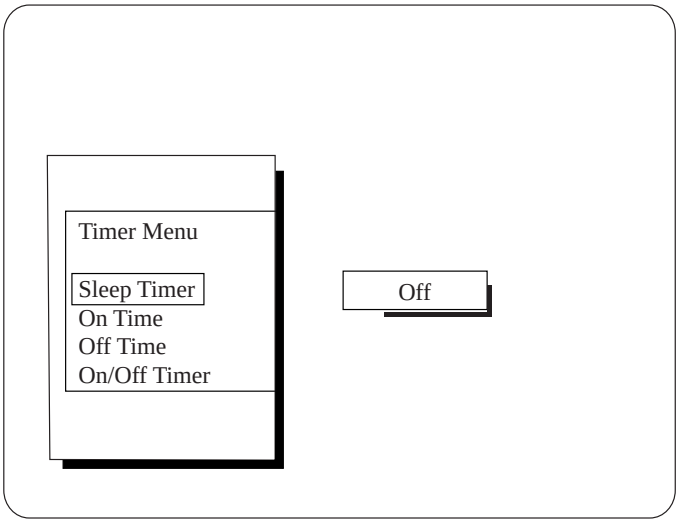
1. Press the MENU key on the remote control so that the Setup menu appears.
2. Using the UP/DOWN arrows on the remote control, select Language on your screen.
3. Press a RIGHT/LEFT arrow to choose any of the following options: English, Spanish, or French.
4. Press ENTER to return to regular TV viewing.



Timer Setup

Set your Entertainment Machine to automatically turn on and off.





1 Press the MENU key repeatedly until the Special Features menu appears on screen.

2 Select TIMER Setup, using the UP/DOWN arrow keys.

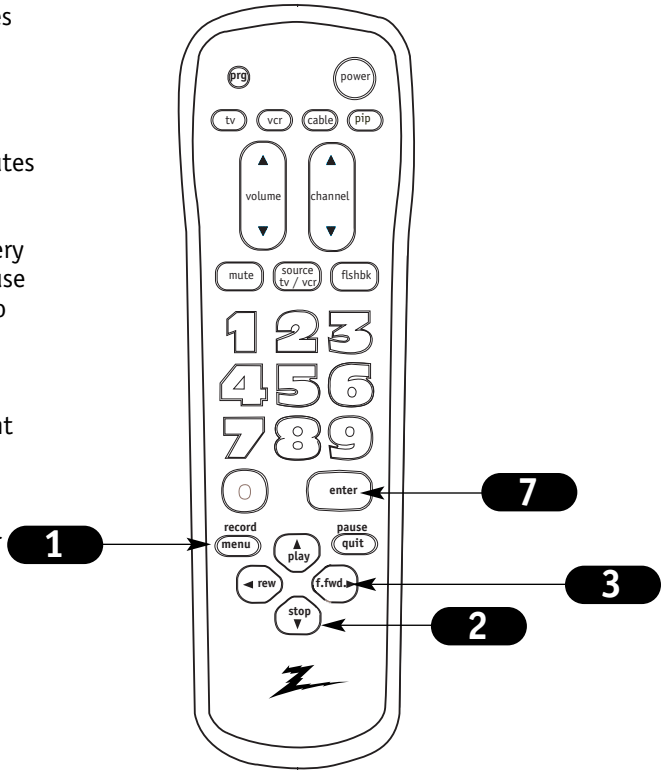
3 Press a RIGHT/LEFT arrows to choose the time (10 minutes up to 4 hours) that you want your TV to turn itself off.

4 If you want the TV to turn on and off automatically every day use the UP/DOWN arrow keys, select ON TIME and use the RIGHT/LEFT keys to set the time you want the TV to turn itself on.

5 Once again, using the UP/DOWN arrow keys, select OFF TIME. Use the RIGHT/LEFT keys to set the time you want the TV to turn itself off.

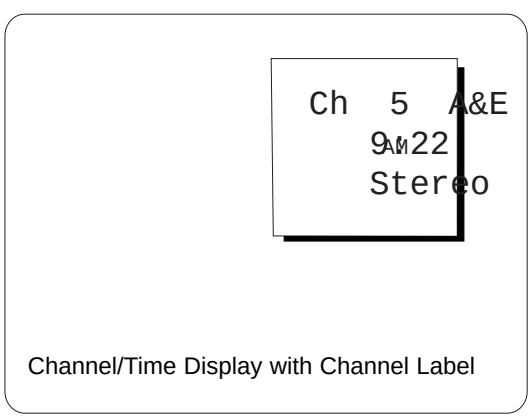
6 Using the UP/DOWN arrow keys, select ON/OFF TIMER. Use the RIGHT/LEFT keys to select ON or OFF. The Timer feature is now set.

7 Press ENTER to return to normal viewing.

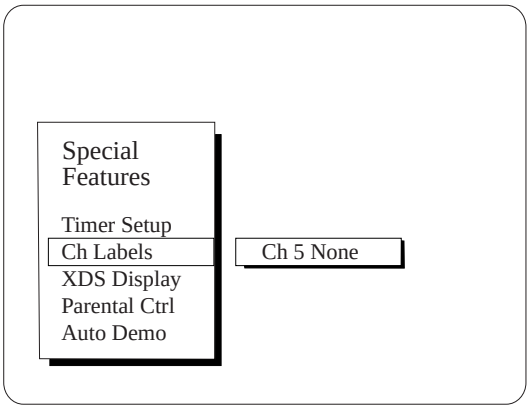


Channel Labels

Choose preset labels or call letters for your channels.



Channel/Time Display with Channel Label



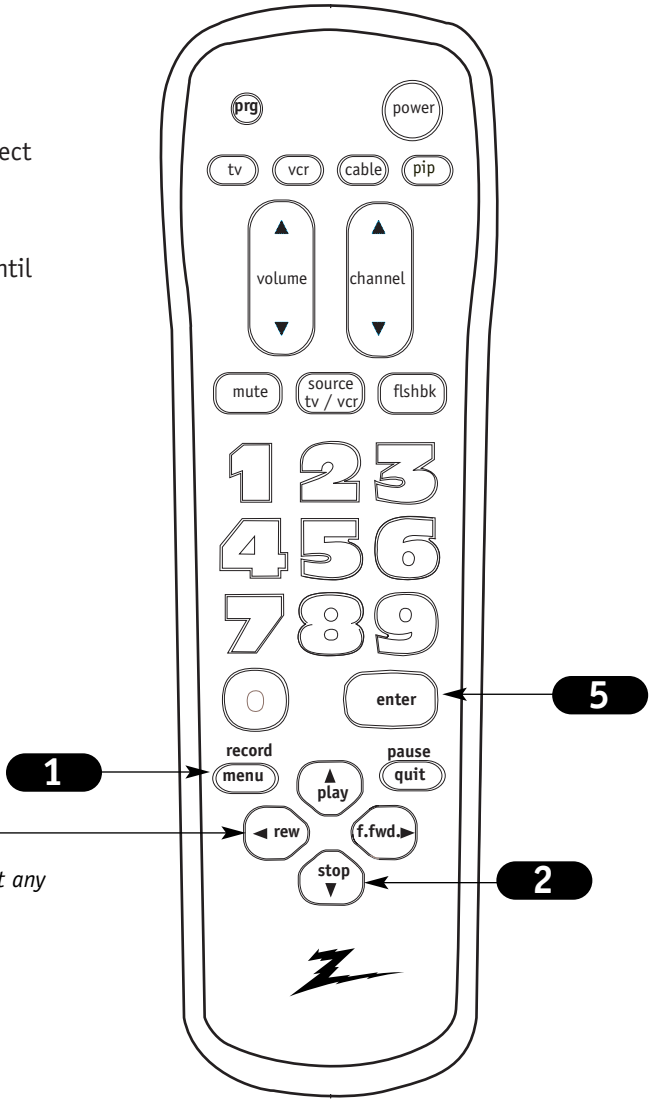
1 Press the MENU key repeatedly until the Special Features menu appears on screen.

2 Select CH LABELS, using the UP/DOWN arrow keys.

3 Press a RIGHT/LEFT arrows repeatedly to choose the correct Call Letters or Channel Letters from the 84 selections included.

4 Enter the next channel you wish to label and repeat 3 until all of the channels have a Channel Label.

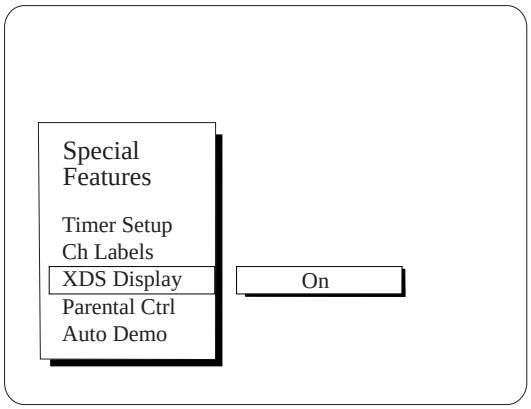
5 Press ENTER to return to normal viewing.

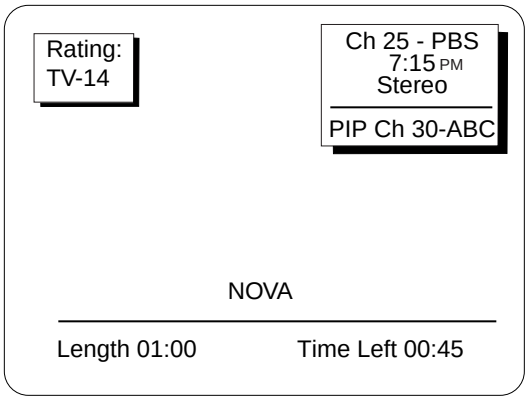


If your cable service should change your channel lineup at any time, you can reset all of the labels again.

XDS Display Menu

Use the Extended Data Service to show in-depth program information.



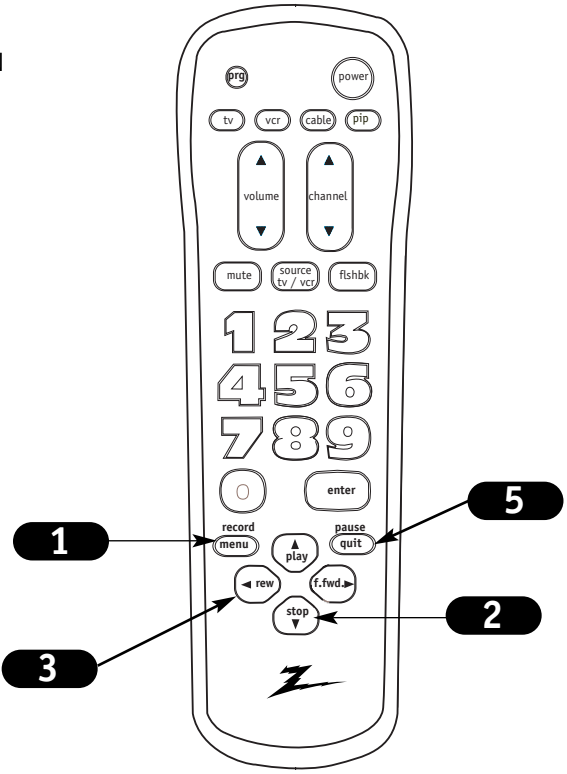


1 Press MENU on the remote repeatedly until the Special Features menu appears.

2 Highlight the XDS Display option using the Select UP and DOWN arrows.

3 Use either the RIGHT or LEFT arrow to specify On or Off.
On - - XDS Display will appear as channels are changed.
Off - - XDS Display will not appear when channels are changed.

4 Press QUIT to return to TV viewing.



At the time of this printing, XDS data is only being carried by some broadcasting stations and as a result, is only available on some channels.

Even though XDS data may be present, it may not be available during commercial or network breaks.

Mini glossary

XDS	Extended Data Service - - if provided by the broadcaster, may show some or all of the following information:
	Channel/Time/Audio display/Network label, if present. Title of program, Length of program in hours and minutes and the Time remaining on the program in hours and minutes.

Parental Control

This feature offers a wide variety of options and settings that restrict or "block" undesirable programming from appearing on your TV screen.

AN OVERVIEW

Parental Control allows the user the capability of defining which program rating they consider acceptable to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies the secret 4-digit code or password. The number of hours blocked can be specified. General audience and children viewer blocks can both be programmed into the TV's memory. Viewer ratings are specified for both TV and the motion picture industry; both rating systems can be used. These ratings are based mainly on the ages of children.

Below are listed explanations of each of the blocking options and a guide to help you access and select the Parental Control option best suited for your viewing environment.

Aux. Block: Allows you to block the signal sent by equipment connected to the TV Audio/Video input jacks such as a VCR, a DVD Player, Laser Disc Player, etc. So, if you do not wish somebody to watch a videotape, a Laser Disc, etc, just set the Aux. Block to **Sources Blocked**.

MPAA: The Motion Picture Association of America's Rating system has been included for those people who may be more familiar with this rating system. (See layout on next page). There are six levels of settings. They are: **G and Above**, **PG and Above**, **PG-13 and Above**, **R and Above**, **NC-17 and Above** and **X**. Press to LEFT or RIGHT arrows access.

NOTE: If you choose TV-PG, all of the more restrictive ratings will be automatically blocked. This means that the viewer will not be able to see TV-PG, TV-14, or TV-MA rated programming.

Age Block: You may wish to use these ratings instead. They are divided into two groups, General and Children.
GENERAL: These settings are: **TV-G and Above**, **TV-PG and Above**, **TV-14 and Above** and **TV-MA.**
CHILDREN: These settings are: **TV-Y and Above** and **TV-Y7.** Press to access.

Content Block: Once again, there are six designated blocks that you can access. They are: **Dialog**, **Language**, **Sex Scenes**, **Violence**, **F Violence** and **No Rating**. These settings allow you the option to block the program "Content" based on individual parameters such as: Strong Dialog, Bad Language, Sex Scenes, Violence Scenes or Fantasy Violence Scenes and then to select an age level as well. Press LEFT or RIGHT arrows to access.

Set Hours: Use this setting to enter the amount of hours you wish the Advanced TV Control feature to be active.

Set Password: Select a secret password or code, using the number keys on the remote control. Don't forget the password. It is the only way you can access the Advanced TV Control menu and change the rating selections. It is also the only way you can turn the Advanced TV Control feature off.

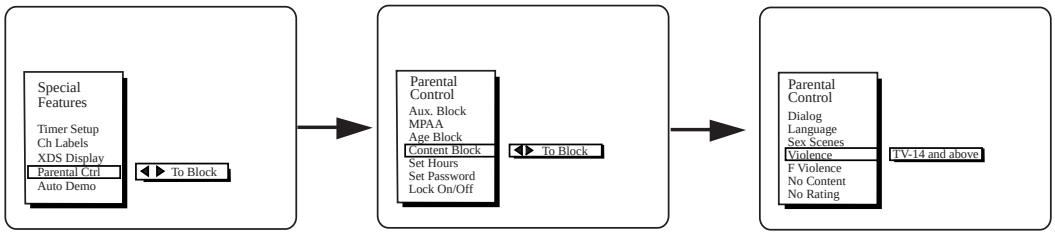
Lock On Off: This setting gives you the option to have the Advanced TV Control feature active all the time or allow you to turn it on or off as needed.

Simply specifying one content block such as Sex Scenes, will not automatically block another content in the programs from appearing.

Even if you choose to leave the Aux inputs unblocked, the ratings you specify will automatically restrict the programming that appears from the video sources.

Parental Control (Continued)

Determine the channels and video sources your family and friends can or cannot access.



1 Press the MENU key repeatedly until the Special Features menu appears on screen.

2 Select Parental Control, using the UP/DOWN arrow keys.

3/4 Press the RIGHT/LEFT arrows to select Block Channels. Using the UP/DOWN arrow buttons, select MPAA to block channels according to the MPAA guidelines. Select Age Block to block according to Age and Content Block to block channels according to program content.

5 Enter the next channel you wish to label and repeat until all of the channels you wish to block have been included.

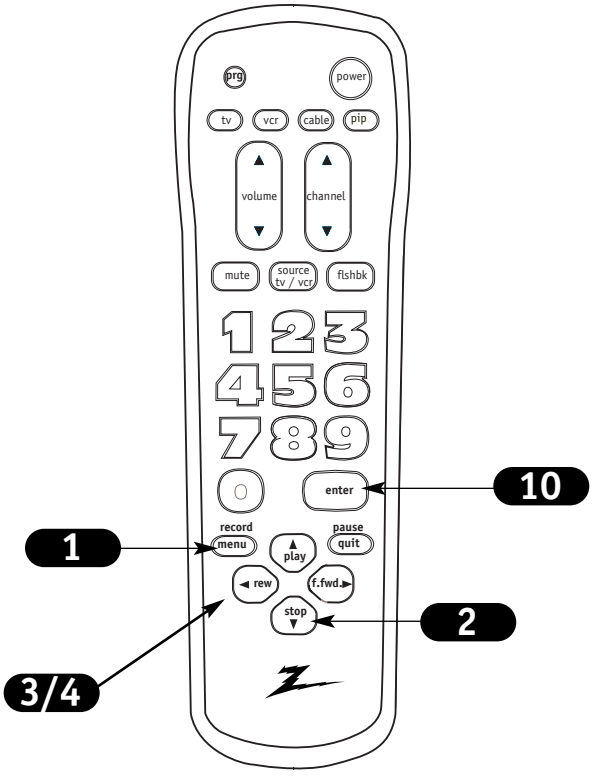
6 If you wish to block a video source (VCR or DVD, etc), press the UP/DOWN arrow keys and select BLOCK VIDEO and repeat 3.

7 To set the hours you wish the Parental Control feature to be on, press the UP/DOWN arrow keys and select SET HOURS.

8 Use the SET PASSWORD feature to insert a four digit code that will make sure no one else can change your settings.

9 Finally set the lock to ON to complete the blocking out of the channels or video sources.

10 Press ENTER to return to normal viewing.



Mini glossary

MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

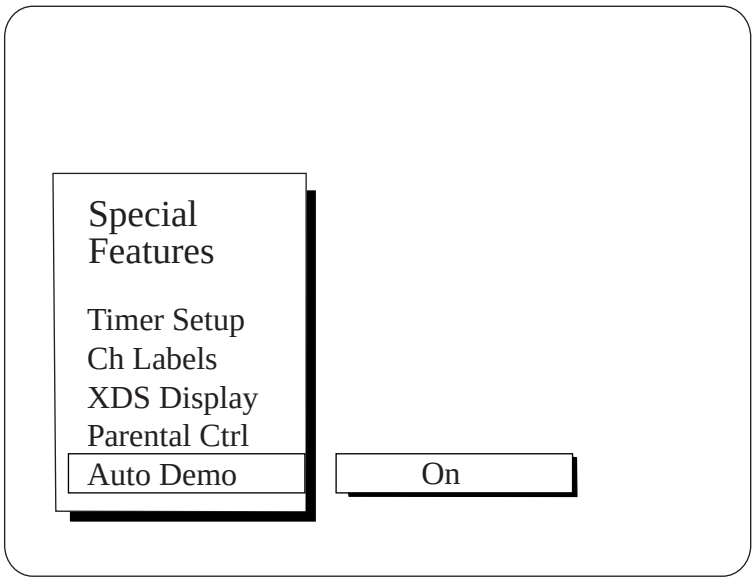
G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

For a complete restriction coverage you should set restrictions for both General and Children in the Age Block Option.

Auto Demo Menu

Your Entertainment Machine will show you all of your Menu options.

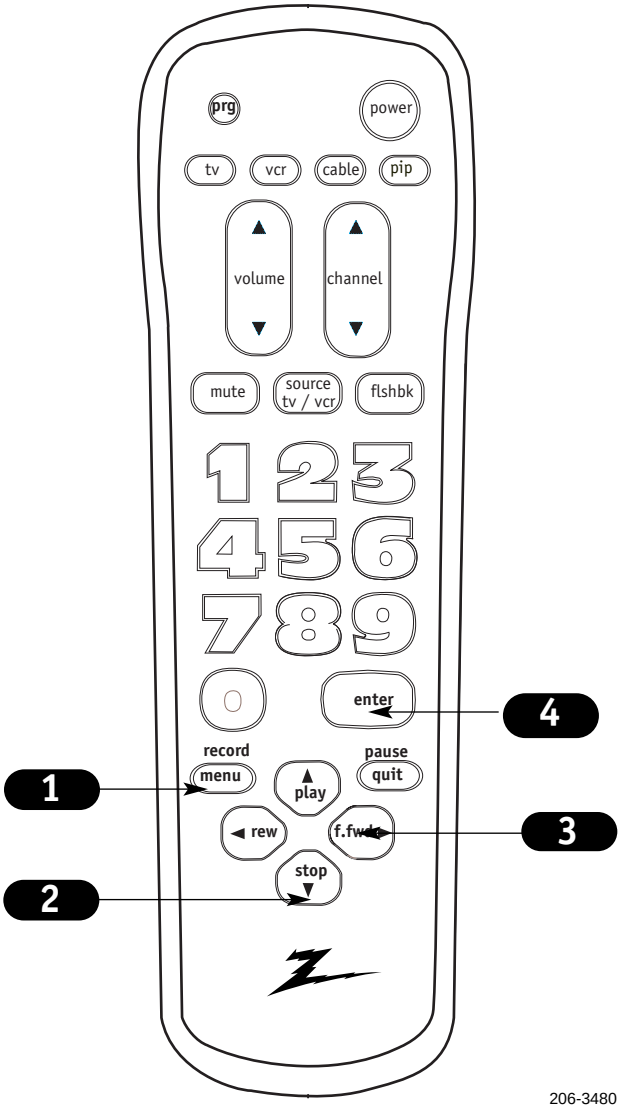


1 Press the MENU key on the remote control repeatedly until the Special Featuresmenu appears.

2 Using the UP/DOWN arrows on the remote control, select EZ Demo on your screen.

3 Press a RIGHT/LEFT arrow to turn the Auto DEMO on or off.

4 Press ENTER to continue.



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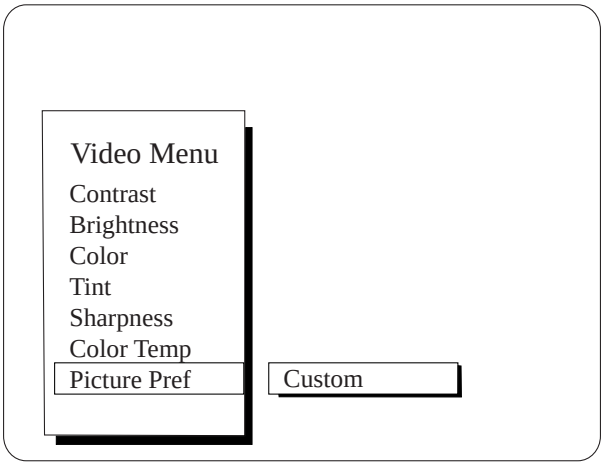
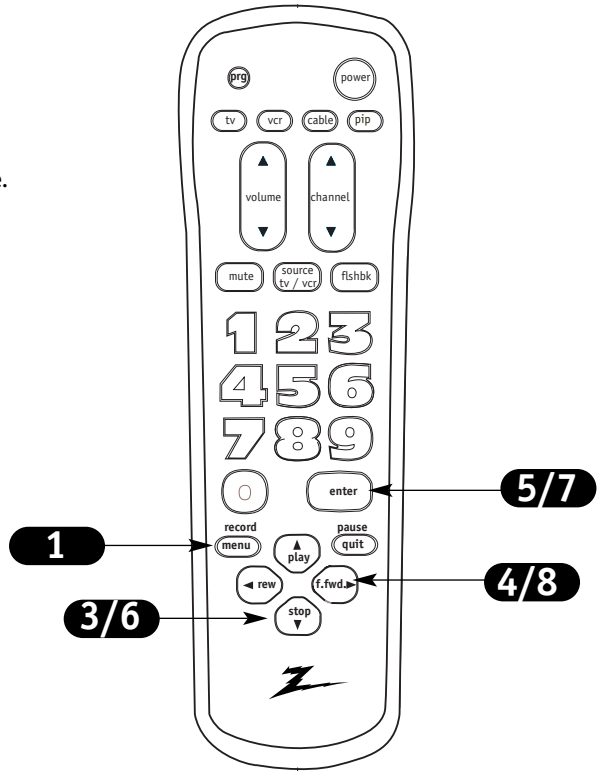
Video Menu

Customize the way your picture looks using the Video menu.



1 Press the MENU key until the Video menu appears.
Your options are:

- **Contrast**: Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears.
- **Brightness**: Increases or decreases amount of white in the TV picture.
- **Color**: Adjusts levels of all colors in the TV picture.
- **Tint**: Balance between amount of red and green in the TV picture.
- **Sharpness**: Raise or lower the definition of the TV picture. The lower the level, the softer the images will appear.
- **Color Temperature**: Choose either Warm or Cool.
  By clever use of the video matrix, this setting allows you to give the overall picture a warm or cool feel. Try it!
- **Picture Preference**: Choose either Custom or Preset.
  Custom allows you to set the picture the way you want.
  Preset moves all the above options back to their original, factory-set levels.



2 Using the UP/DOWN arrows on the remote control, select Contrast on your screen.

3 Using the RIGHT/LEFT arrows, adjust the contrast level to your preference.

4 Press ENTER, QUIT or MENU one more time to return to TV viewing, or repeat from step four to set the other menu options.

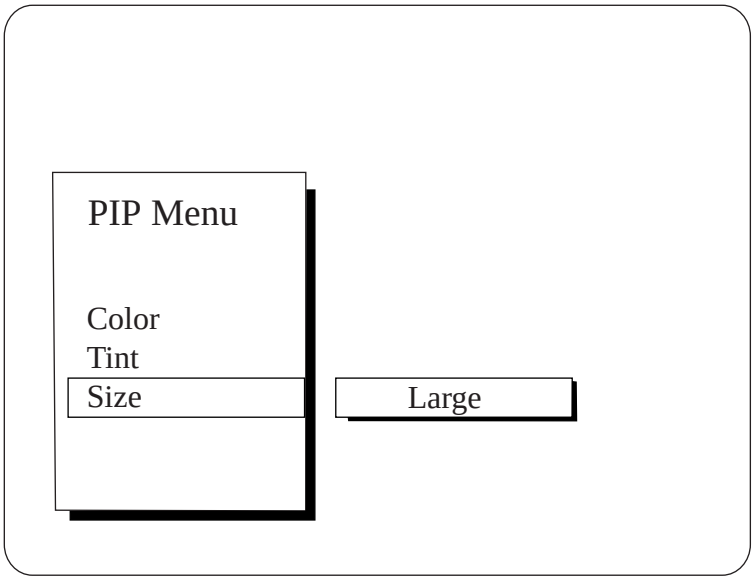
5 Using the Up/Down arrow, select Picture Pref. on your screen.

6 Using the RIGHT/LEFT arrows, choose either the original settings with Preset or use your own settings with Custom.

7 Press ENTER to continue watching TV.

PIP Menu

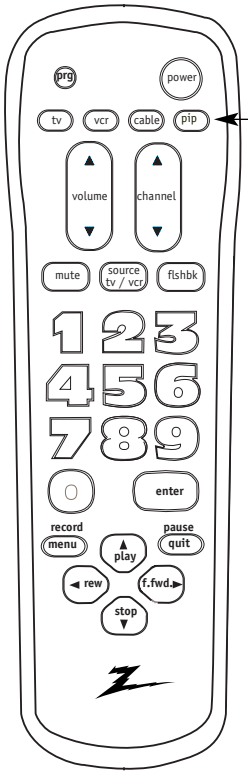
How to use the PIP features in your Entertainment Machine.



1 Press the PIP button on your Remote Control to make the PIP inset appear on screen.

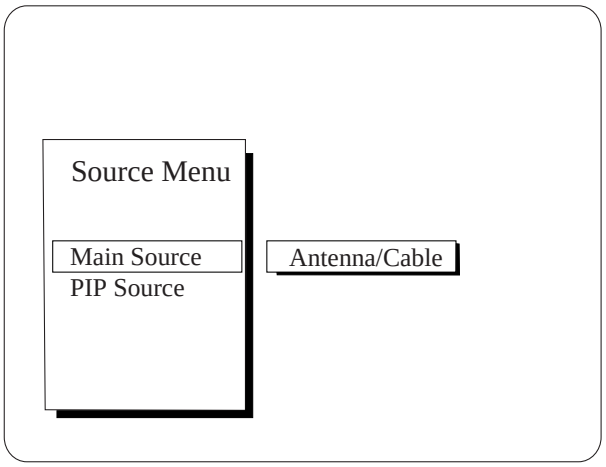
2 Press PIP again to remove PIP from the screen.

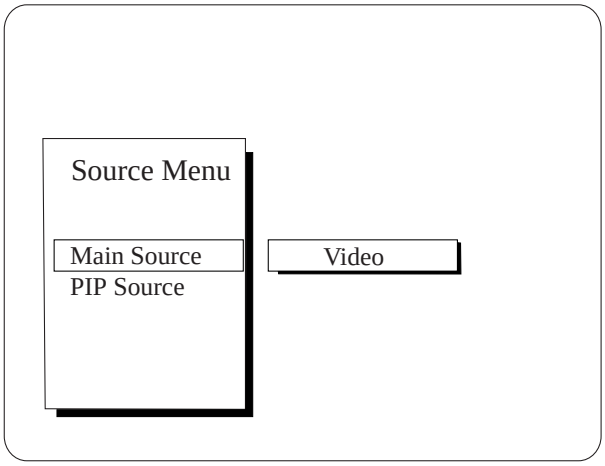
3 The COLOR, TINT and SIZE features allow you to adjust the picture settings to your own personal taste.



Source Menu

Choose between Antenna/Cable and Video Sources.



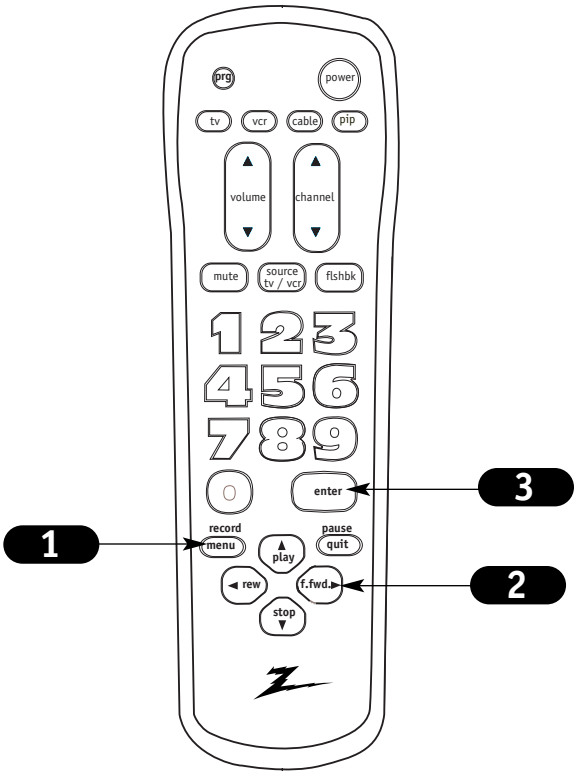


1 Press the MENU key on the remote control repeatedly until the Source Menu appears on screen. It will show that the source of the picture on your screen is either coming from your Antenna Cable or from your Video (Video can be VCR, a DVD player, etc.).

2 Press a RIGHT/LEFT arrow to make an adjustment, changing the signal source from Antenna/Cable to your Video or vice versa.

3 Press ENTER to clear the screen.

4 If you wish to find out the source that your PIP is coming from or you want to adjust it, select PIP.



Note: You will need to connect a VCR to your television in order to use the Picture-In-Picture feature. (See pages 8-9 to hook up your VCR)

Programming the Remote

Program your remote to work with a vast range of A/V devices.

1 The device you want to program should be ON.

2 On the chart in this manual, find the type of device you're programming and then find the brand name. Make a note of the three-digit code—you'll need it soon.

3 Press and hold the PRG key. It's recessed so it doesn't get pushed accidentally. When the indicator light behind the PRG button turns on, you can release the button.

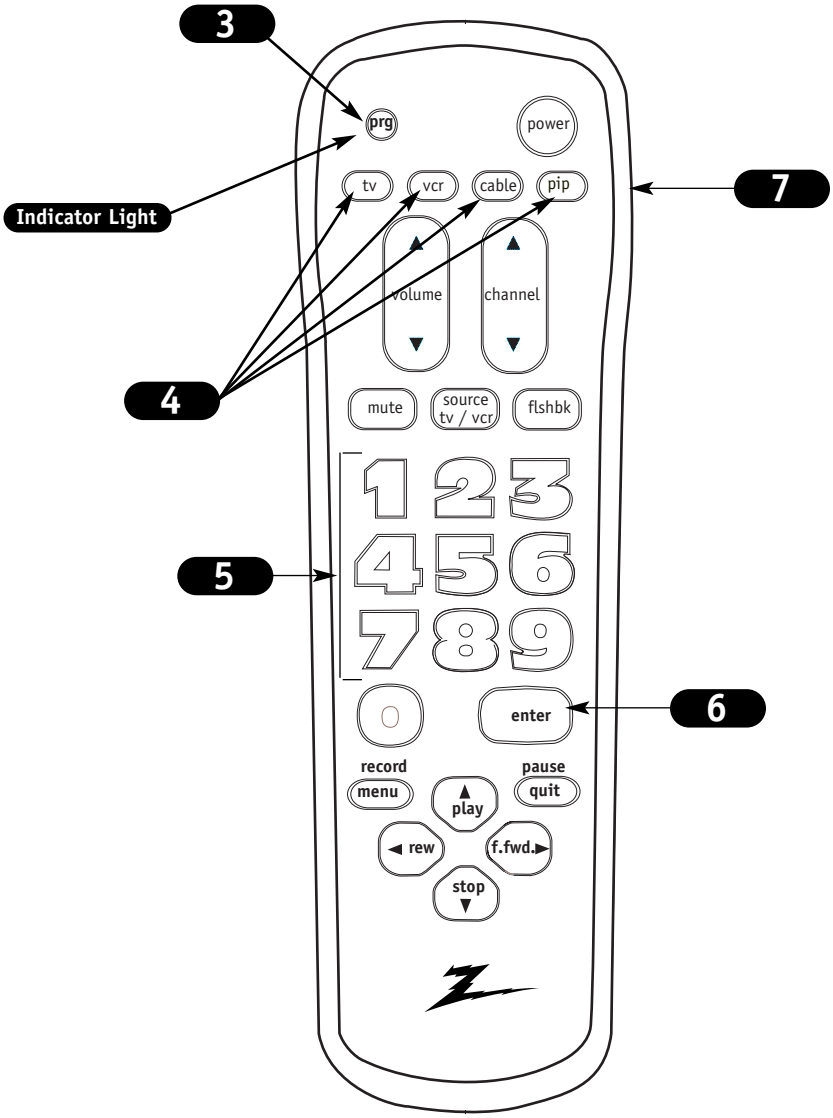
4 Push the button with the name of the device you're programming (VCR, CABLE, TV).

5 Using the number pad, enter the three digit code found on the chart in the Reference section.

6 Press ENTER to save the code The indicator light will flash three times and turn off if the code was accepted.

7 Aim the remote at the device and push the POWER button. It should turn off. If not, try the other codes listed and continue from step three.

Note: After programming, to operate the device you have just programmed, press the proper Mode button first



Programming your Zenith remote will allow you to use one remote to work up to 3 different devices!

Not all devices will work with your Zenith remote control.

Programming Codes

Find the codes you need to program your remote. On this page: TVs and VCRs.

TVs

Admiral 116 121 130 133
Adventura TV/VCR . 154
Akai 104
Amark 103 146
AOC 104
Bell & Howell . . . 121
Broksonic 131 136
Candle 139
Centurion 119
Citizen 121 139
Contec 141
Coronado 103
Crown 103
Curtis Mathes 116 119 121
Daewoo 149 159
Daewoo TV/VCR . . 148
Daytron 119
Elektra 121
Emerson 103 104 123 124 131 136 145
Emerson TV/VCR . . 158
Fisher 109 118
Funai TV/VCR 154
General Electric . . 106 107 114 116 117 161
Goldstar 103 104 119 147
Goldstar TV/VCR . . 153
Hitachi 102 103 129 163
J.C. Penney 104 110 114 117 119
JVC 125 132 164
KMC 103
KTV 103 104 138
Kurazai 121
Lodgenet 121
Logik 121
LXI 133 137
Magnavox 103 112 113 117 119 127 128 139 165
Magnavox TV/VCR . 173
Majestic 121
Marantz 104 120 155
Megatron 146
Memorex 121
MGA/Mitsubishi. . . 104 119 120 130 140 155
Montgomery Ward . 103 104 105 113 114 119 121 130 133
NEC 104 119
Panasonic 106 107 160 166
Panasonic TV/VCR . 174
Philco 103 104 112 113 139
Philips 112 113
Pioneer 135
Portland 103
ProScan 116 157 162 167
Quasar 106 107
RCA 104 116 126 157 161 162 167 168
Realistic 105 123 124
Sampo 119
Samsung 103 119 134 141
Sanyo 108 109 118
Scott 119 124
Sears 103 108 109 110 111 118 134
Sharp 103 105 122 133 137 156 169
Signature 2000 . . . 103 104 105 113 114 119 121 130 133
Sony 115 143 151 170
Soundesign 139
Sylvania 112 113 117 119 127 128 139
Symphonic TV/VCR 154
Tatung 106
Teknika 103 112 121 124 139
Telerent 103 121
Toshiba 110 111 134 171
XR 1000 121
Yorx 119
Zenith 101 149 175
Zenith TV/VCR . . . 153 154 172

VCRs

Admiral 208 261
Adventura 231
Aiwa 231
Akai 223 238 241
Audio Dynamics . . 202 218
Bell & Howell 206 247
Broksonic 221 226 250 255
Canon 214
Citizen 209
Craig 212
Curtis Mathes . . . 214 259
Daewoo 244 246 248 254
Daytron 236 246
DBX 202 218
Emerson 203 209 221 223 226 233 235 243 250
Fisher 211 212 213 247
Funai 231
General Electric . . 214 216 220
Goldstar 209
Go Video 256 262 263
Hitachi 215 257
Instant Replay . . . 214 227
J.C. Penny 214 215 218 227
JVC 202 224 225 258
Kenwood 202
Logik 239
LXI 209 231
Magnavox 207 214 231
Marantz 207 218
Marta 209
Memorex 206 212 214 231
Mitsubishi 204 222 252 264
Montgomery Ward . 208 214 216 219 231 249
Multi Tech 239
NEC 202 218
Orion 250
Panasonic 214 251 259
Pentax 215
Philco 207 214
Philips 207 214 227
Pioneer 210 215
Portland 246
ProScan 216 260
Quasar 214 259
RCA 215 216 220 227 240 242 249 260
Realistic 206 208 212 214 231
Samsung 220 230 238
Sansui 239
Sanyo 206 212 247
Scott 204 205 233 243
Sears 206 209 211 212 215
Sharp 208 261
Shintom 239
Signature 2000 . . . 208 214 216 219 231 249
Sony 217 232 237
Sylvania 207 214 227
Symphonic 231
Tashiko 209
Tatung 202
Teac 202 231
Teknika 209 234
Toshiba 205 215
XR 1000 239
Vector Research . . 204 218
Yamaha 202 218
Zenith 201 224 225 229 237

Programming Codes

Find the codes you need to program your remote. On this page: Cable, Satellite, CD Players, Tape Decks and Audio Tuners and Amplifiers.

Cable Satellite

Allegro 358 362
Allegro A/B Switch 361
Gemini 305 331 338
General Electric. . . 367
General Instrument 304 305 306 307 308 309 310 318
Hamlin 302 303 345 365 366
Jerrold 304 307 308 309 310 318 360 363
Kale Vision 335
Macom 314 321
Magnavox 334
NSC 335 339 368 369 370
Oak 311 332 342
Panasonic 313 320
Paragon 333
Philips 347 350 352 354 355
Pioneer 315 343
RCA DSS 373
Regency 329
Samsung 335
Scientific Atlanta . 316 323 336 364
Sprucer 313
Standard Comp . . . 335
Stargate 379
Texscan 339 356 371
Tocom 317 318 346
Unika 348 362
United Satellite . . 344
Universal 358 362
Vid Tech 340
Video Way 349
Viewstar 354 355 372
Zenith 301 353 374
Zenith Satellite . . 312 328 330 351 378

Video Disc Players

Pioneer 402 403
Sanyo 401
Sony 404
Zenith 401

Audio CD Players

Akai 409 424
Crown 410
Denon 411
Fisher 412 438
Goldstar 460
Harman/Kardon . . 413
JVC 415
Kenwood 412 416 417 441
Magnavox 421 422 433 434
Mitsubishi 423 424
NAD 425 426 447
Nakamichi 427 428
NEC 429
Onkyo 430
Panasonic 431 432
Philips 421 433 434
Pioneer 431 435
Quasar 432
Radio Shack 431 436 439 440 441
RCA 437
Sanyo 438 439
Scott 440
Sharp 441 442
Sony. 443 444 445
Soundesign 461 498 501 502
Sylvania 433
Teac 446
Technics 432 459
Toshiba 447
Yamaha 448
Zenith 460 461 498 501 502

Audio Tape Decks

Denon. 455
Harman/Kardon. . . 456
JVC 457
Kenwood 450
Onkyo 458
Philips DCC 454
Pioneer 451 478
Sony. 452

Audio Tuners/Amps

Denon. 462 463
Fisher 464
Goldstar 460
Harman/Kardon . . 465
JVC 466
Kenwood 468 469
Marantz. 472 503
Onkyo 473
Philips 475 476
Pioneer 477 478 479
Radio Shack 487 488
Realistic 480
Sanyo 481
Scott 482
Sharp 483
Sony. 489 490 491 492
Soundesign 461 498 501 502
Teac 494 495
Technics 497
Yamaha 496
Zenith 460 461 498 501 502

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and poor sound.	• Check your antenna connection or location.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Make sure the wire from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and poor sound.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment* • If possible increase the distance between your Entertainment Machine™ and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume control. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine™. • Are the Audio A/V cables properly installed? • Are the wires for external speakers (if you have external speakers) properly installed?
No picture and poor sound.	• Are you in TV or cable tuning mode and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• The CC (closed caption) option may be in Text mode. Select OFF in the Captions/ Text menu.
Picture has two horizontal black bars, one on top and one on bottom.	• Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars. Trust us.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.
Menu options won't change.	• Try unplugging the TV, waiting about five minutes, and then plugging it back in and trying again.

Glossary

A complete list of definitions for words found in this guide.

75 OHM RF CABLE The wire that comes from an off-air antenna or cable service provider. The end looks like a hex-shaped nut with a wire sticking through the middle. It screws onto the threaded jack on the back of your TV.

300 TO 75 OHM ADAPTER A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

A/V CABLES Audio/Video cables. Three cables bunched together—right audio (red), left audio (white), and video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

ADD This function lets you add new channels to list that you'll scroll through when using your remote.

ANTENNA The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

AUTO PROGRAM Auto Program has your Entertainment Machine automatically find all the channels available in your area.

BLOCK Restrict or censor a channel for a set length of time.

DELETE This function lets you remove channels that you don't watch from the list you'll scroll through using your remote.

INPUT Refers to the jack that receives a signal from a TV, VCR or other A/V device.

JACK A connection on the back of a TV, VCR, or any other A/V device.

MONO SOUND Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.

OUTPUT Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

SECOND AUDIO PROGRAMMING/SAP Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

SIGNAL Picture and sound traveling through cable, or on the air, to your television screen.

STEREO SOUND Stereo (stereophonic) sound refers to audio that's divided into right and left sides.

TUNER Device that picks up the signal and turns them into picture and sound.

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Find what you want quickly.

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Maintenance

Caring for your Entertainment Machine.

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

Screen Cleaning

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet (avoid using any cleaner that says "industrial strength" or "will wash the white off of rice" on the label).

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning the Entertainment Machine on.

Wood Cabinets

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

Extended Absence

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

If you unplug your Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier.

Recommended Video Accessories

INDOOR AMPLIFIED ANTENNA

Receive Local programming NOT available on your Satellite system!!! Perfect backup antenna for cable outages. Enhanced quality picture and stereo sound in weak signal areas.

- Amplified VHF/UHF/FM Antenna includes 4 feet of 75 ohm cable for easy hookup.

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Set up your game room or spare room in style!! Sturdy black wall mounts keep the TV off your furniture and in easy view. All mounts have 90 degree and 10 degree tilt angles.

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- ALGW20 fits most 19" and 20" TVs - **ONLY $49.99**
- ALGw13 fits most 13" Televisions - **ONLY $39.99**

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ZENITH 5 FUNCTION REMOTE

Broken or lost remote? Need a second remote or more functions? Order direct from Zenith!!

- Operates TV, VCR, CD, DVD, & Cable Boxes
- Operates PIP and Most Screen Menus
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Other Remotes with 3, 4, 5 & 7 Functions Available Upon Request

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PLEASE ALLOW 3 - 4 WEEKS FOR DELIVERY

Your Zenith Warranty

Direct-View Color TV Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance and Troubleshooting" in your operating guide. You might avoid a service call.

ZENITH ELECTRONICS CORPORATION
Zenith Response Center

201 James Record Rd., Building 3,
Huntsville, AL 35824
Telephone (256) 772-1515
Mon-Fri, 7:00 a.m.-8:00 p.m. CST
Sat. 8:00 a.m.-5:00 p.m. CST
www.zenith.com

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M-F 8-6, Sat 9-2
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Additional Zenith Picture Tube Protection Plan Available
Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new Entertainment Machine. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your Entertainment Machine in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (256) 774-4088.

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